

Lampiran 1. Keterangan Kelaikan Etik



KEMENTERIAN RISET, TEKNOLOGI, DAN PENDIDIKAN TINGGI UNIVERSITAS BRAWIJAYA

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KETERANGAN KELAIKAN ETIK ("ETHICAL CLEARANCE")

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KOMISI ETIK PENELITIAN KESEHATAN FAKULTAS KEDOKTERAN UNIVERSITAS BRAWIJAYA, SETELAH MEMPELAJARI DENGAN SEKSAMA RANCANGAN PENELITIAN YANG DIUSULKAN, DENGAN INI MENYATAKAN BAHWA PENELITIAN DENGAN

JUDUL : Peran Kurkumin Terhadap Perbaikan Fibrosis Hati dan Hipertensi Portal Gastropati pada Tikus Model Fibrosis

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TEMPAT PENELITIAN : Laboratorium Fisiologi dan Patologi Anatomi Fakultas Kedokteran Universitas Brawijaya

DINYATAKAN LAIK ETIK.

Malang, 1 MAR 2016
Ketua,
Komisi Etik Penelitian Kesehatan
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Catatan :

Keterangan Laik Etik Ini Berlaku 1 (Satu) Tahun Sejak Tanggal Dikeluarkan Pada Akhir Penelitian, Laporan Pelaksanaan Penelitian Harus Diserahkan Kepada KEPK-FKUB Dalam Bentuk Soft Copy. Jika Ada Perubahan Protokol Dan / Atau Perpanjangan Penelitian, Harus Mengajukan Kembali Permohonan Kajian Etik Penelitian (Amandemen Protokol)

Lampiran 2. Pelaksanaan Penelitian



Keterangan Gambar: A. Proses Adaptasi Hewan Coba, B. Pembuatan Bahan Pakan Hewan Coba, C. Injeksi CCl₄ Intraperitoneal, D. Pemberian Kurkumin Per Oral, E. Pembedahan Hewan Coba, F. Evakuasi Organ Lambung

Lampiran 3. Data Kadar MDA dan Aktivitas GPx Jaringan Lambung

Perlakuan	Tikus	Massa Jaringan Lambung	ABS	MDA (nM/mg protein)	ABS	GPx (unit nM/menit/mg protein)
K-Neg Diinjeksikan NaCl 1cc 2x/minggu selama 9 minggu	1	500 mg	1,102	2,778125	0,923	251,871
	2	500 mg	1,136	2,884375	1,135	219,073
	3	500 mg	1,123	2,84375	1,049	212,725
	4	500 mg	1,117	2,825	0,930	267,212
K-Pos Diinjeksikan CCl ₄ 1cc 2x/minggu selama 9 minggu	1	500 mg	1,05	2,615625	0,634	396,48
	2	500 mg	1,166	2,978125	0,568	502,676
	3	500 mg	1,218	3,140625	0,555	459,308
	4	500 mg	1,23	3,178125	0,664	399,816
KK-2 Diberikan sonde pelarut kurkumin selama 2 minggu	1	500 mg	1,44	3,834375	0,761	315,46
	2	500 mg	1,036	2,571875	0,665	267,52
	3	500 mg	1,004	2,471875	0,805	337,39
	4	500 mg	0,952	2,309375	0,889	379,72
KP-2 Diberikan sonde kurkumin (200mg/kgBB) selama 2 minggu	1	500 mg	0,93	2,240625	0,593	231,31
	2	500 mg	0,987	2,41875	0,673	271,6
	3	500 mg	1,065	2,6625	0,713	291,49
	4	500 mg	1,131	2,86875	0,667	268,54
KK-5 Diberikan sonde pelarut kurkumin selama 5 minggu	1	500 mg	1,169	2,9875	0,421	145,29
	2	500 mg	1,064	2,659375	0,456	162,8
	3	500 mg	1,097	2,7625	0,367	118,43
	4	500 mg	1,079	2,70625	0,436	152,94
KP-5 Diberikan sonde kurkumin (200mg/kgBB) selama 2 minggu	1	500 mg	0,65	1,365625	0,712	290,98
	2	500 mg	0,772	1,746875	0,823	346,57
	3	500 mg	0,805	1,85	0,593	231,31
	4	500 mg	0,992	2,434375	0,644	256,81

KK-9 Diberikan sonde pelarut kurkumin selama 9 minggu	1	500 mg	1,134	2,878125	0,324	96,84
	2	500 mg	1,145	2,9125	0,514	192,04
	3	500 mg	1,239	3,20625	0,366	118,09
	4	500 mg	1,122	2,840625	0,419	144,61
KP-9 Diberikan sonde kurkumin (200mg/kgBB) selama 2 minggu	1	500 mg	0,982	2,403125	0,315	92,59
	2	500 mg	0,607	1,23125	0,450	159,91
	3	500 mg	0,558	1,078125	0,390	129,82
	4	500 mg	0,618	1,265625	0,338	103,81

Lampiran 4. Skoring Histopatologi Lambung

KELOMPOK		RERATA SKORING DALAM SETIAP PARAMETER					RERATA
		A	B	C	D	E	
KN	1	0,4	0,2	0,6	0,2	0,6	0,4
	2	0,6	0,6	1,4	0,8	1,2	0,92
	3	0	0	0	0	0	0
	4	0	0	0	0,2	0,55	0,15
		0,3675					
KP	1	0,4	0,6	1	1,2	1	0,84
	2	0,8	1,2	0,4	2	1	1,08
	3	1	0,4	1	2,6	1	1,2
	4	1,4	1	1	2,2	1	1,32
		1,11					
KK2	1	0,8	0,8	0,2	1,2	0,6	0,72
	2	1	1	0,8	1,2	1	1
	3	1,6	1,2	1	1,6	1	1,28
	4	1,8	1	0,6	1	0,8	1,04
		1,01					
KP2	1	1,67	0,5	1	2	0,6	1,154
	2	0,8	0	0,89	2,67	0	0,872
	3	0,67	0	0,67	2,167	1	0,9014
	4	0,167	1	1	2,167	0,83	1,0328
		0,99005					
KK5	1	1,4	0	0	1	1	0,68
	2	2	0	0	1,2	1	0,84
	3	2,4	0,8	0	1,2	1	1,08
	4	2	1	0	1	1	1
		0,9					
KP5	1	1,6	0,6	0	1,2	0,6	0,8
	2	2	0	0	1	1	0,8
	3	0,4	0,6	0,2	1	0,8	0,6
	4	2	0,2	0,4	1,4	1	1
		0,8					
KK9	1	0,6	1,2	1	2	1	1,16
	2	0,8	1	1,4	2	1	1,24
	3	0,8	1,2	0,8	2	1	1,16
	4	0	1	1	2,6	1	1,12
		1,17					
KP9	1	2	0,4	1	1	1	1,08
	2	2	0,83	1	1,167	1	1,1994
	3	0,5	0	1	1	1	0,7
	4	2,67	0,33	1	1	1	1,2
		1,04485					

Lampiran 5. Hasil Analisa Statistik

5.1. Uji Asumsi Normalitas

Explore

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Residual for MDA	24	100.0%	0	.0%	24	100.0%
Residual for GPx	24	100.0%	0	.0%	24	100.0%
Residual for Hispatologi	24	100.0%	0	.0%	24	100.0%

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Residual for MDA	.154	24	.143	.951	24	.284
Residual for GPx	.095	24	.200*	.980	24	.904
Residual for Hispatologi	.107	24	.200*	.980	24	.899

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

5.2. Uji Asumsi Homogenitas Ragam

Levene's Test of Equality of Error Variances

Dependent Variable: MDA

F	df 1	df 2	Sig.
.556	5	18	.732

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+Kurkumin+Lama+Kurkumin * Lama

Levene's Test of Equality of Error Variances

Dependent Variable: GPx

F	df 1	df 2	Sig.
.820	5	18	.552

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+Kurkumin+Lama+Kurkumin * Lama

Levene's Test of Equality of Error Variances

Dependent Variable: Hispatologi

F	df 1	df 2	Sig.
.781	5	18	.576

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+Kurkumin+Lama+Kurkumin * Lama

5.3. Uji t independen

T-Test

Group Statistics

	Kelompok	N	Mean	Std. Deviation	Std. Error Mean
MDA	KN	4	2.8328	.04408	.02204
	KP	4	3.0563	.12178	.06089

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
MDA	Equal variances assumed	15.990	.007	-3.450	6	.014	-.22344	.06476	-.38189	-.06498
	Equal variances not assumed			-3.450	3.773	.029	-.22344	.06476	-.40758	-.03929

T-Test

Group Statistics

	Kelompok	N	Mean	Std. Deviation	Std. Error Mean
GPx	KN	4	237.7203	26.09272	13.04636
	KP	4	439.5700	51.01988	25.50994

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
GPx	Equal variances assumed	4.254	.085	-7.045	6	.000	-201.84975	28.65248	-271.960	-131.740
	Equal variances not assumed			-7.045	4.469	.001	-201.84975	28.65248	-278.216	-125.484

T-Test

Group Statistics

Kelompok		N	Mean	Std. Deviation	Std. Error Mean
Hispatologi	KN	4	1.3020	.07458	.03729
	KP	4	1.1100	.20494	.10247

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
Hispatologi	Equal variances assumed	2.589	.159	1.761	6	.129	.19200	.10904	-.07482	.45882
	Equal variances not assumed			1.761	3.781	.157	.19200	.10904	-.11780	.50180

5.4. ANOVA Kadar MDA

Means

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
MDA * Interaksi	24	100.0%	0	.0%	24	100.0%

Report

MDA

Interaksi	Mean	N	Std. Deviation
KK2	2.5625	4	.24778
KP2	2.5477	4	.27518
KK5	2.7789	4	.14531
KP5	1.7711	4	.31319
KK9	2.9594	4	.16718
KP9	1.3383	4	.30435
Total	2.3263	24	.62936

Univariate Analysis of Variance

Warnings

Post hoc tests are not performed for Kurkumin because there are fewer than three groups.

Between-Subjects Factors

		Value Label	N
Kurkumin	1.00	KK	12
	2.00	KP	12
Lama	2.00	2 minggu	8
	5.00	5 minggu	8
	9.00	9 minggu	8

Levene's Test of Equality of Error Variances^a

Dependent Variable: MDA

F	df 1	df 2	Sig.
.556	5	18	.732

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+Kurkumin+Lama+Kurkumin * Lama

Tests of Between-Subjects Effects

Dependent Variable: MDA

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	7.979 ^a	5	1.596	25.406	.000
Intercept	129.880	1	129.880	2067.622	.000
Kurkumin	4.660	1	4.660	74.178	.000
Lama	.692	2	.346	5.506	.014
Kurkumin * Lama	2.628	2	1.314	20.919	.000
Error	1.131	18	.063		
Total	138.990	24			
Corrected Total	9.110	23			

a. R Squared = .876 (Adjusted R Squared = .841)

Post Hoc Tests

Lama Pemberian Kurkumin

Multiple Comparisons

Dependent Variable: MDA

Tukey HSD

(I) Lama	(J) Lama	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
2 minggu	5 minggu	.2801	.12532	.092	-.0397	.5999
	9 minggu	.4062*	.12532	.012	.0864	.7261
5 minggu	2 minggu	-.2801	.12532	.092	-.5999	.0397
	9 minggu	.1262	.12532	.582	-.1937	.4460
9 minggu	2 minggu	-.4062*	.12532	.012	-.7261	-.0864
	5 minggu	-.1262	.12532	.582	-.4460	.1937

Based on observed means.

*. The mean difference is significant at the .05 level.

Homogeneous Subsets

MDA

Tukey HSD^{a,b}

Lama	N	Subset	
		1	2
9 minggu	8	2.1488	
5 minggu	8	2.2750	2.2750
2 minggu	8		2.5551
Sig.		.582	.092

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .063.

a. Uses Harmonic Mean Sample Size = 8.000.

b. Alpha = .05.

Post Hoc Tests

Multiple Comparisons

Dependent Variable: MDA

Tukey HSD

(I) Interaksi	(J) Interaksi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
KK2	KP2	.01484	.17722	1.000	-.5484	.5781
	KK5	-.21641	.17722	.821	-.7796	.3468
	KP5	.79141*	.17722	.003	.2282	1.3546
	KK9	-.39687	.17722	.268	-.9601	.1663
	KP9	1.22422*	.17722	.000	.6610	1.7874
KP2	KK2	-.01484	.17722	1.000	-.5781	.5484
	KK5	-.23125	.17722	.779	-.7945	.3320
	KP5	.77656*	.17722	.004	.2133	1.3398
	KK9	-.41172	.17722	.235	-.9749	.1515
	KP9	1.20938*	.17722	.000	.6462	1.7726
KK5	KK2	.21641	.17722	.821	-.3468	.7796
	KP2	.23125	.17722	.779	-.3320	.7945
	KP5	1.00781*	.17722	.000	.4446	1.5710
	KK9	-.18047	.17722	.906	-.7437	.3828
	KP9	1.44063*	.17722	.000	.8774	2.0038
KP5	KK2	-.79141*	.17722	.003	-1.3546	-.2282
	KP2	-.77656*	.17722	.004	-1.3398	-.2133
	KK5	-1.00781*	.17722	.000	-1.5710	-.4446
	KK9	-1.18828*	.17722	.000	-1.7515	-.6251
	KP9	.43281	.17722	.194	-.1304	.9960
KK9	KK2	.39687	.17722	.268	-.1663	.9601
	KP2	.41172	.17722	.235	-.1515	.9749
	KK5	.18047	.17722	.906	-.3828	.7437
	KP5	1.18828*	.17722	.000	.6251	1.7515
	KP9	1.62109*	.17722	.000	1.0579	2.1843
KP9	KK2	-1.22422*	.17722	.000	-1.7874	-.6610
	KP2	-1.20938*	.17722	.000	-1.7726	-.6462
	KK5	-1.44063*	.17722	.000	-2.0038	-.8774
	KP5	-.43281	.17722	.194	-.9960	.1304
	KK9	-1.62109*	.17722	.000	-2.1843	-1.0579

*. The mean difference is significant at the .05 level.

Homogeneous Subsets

MDA

Tukey HSD^a

Interaksi	N	Subset for alpha = .05	
		1	2
KP9	4	1.3383	
KP5	4	1.7711	
KP2	4		2.5477
KK2	4		2.5625
KK5	4		2.7789
KK9	4		2.9594
Sig.		.194	.235

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.000.

5.5. ANOVA Kadar GPx

Means

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
GPx * Interaksi	24	100.0%	0	.0%	24	100.0%

Report

GPx

Interaksi	Mean	N	Std. Deviation
KK2	265.7350	4	25.10423
KP2	325.0225	4	46.70029
KK5	144.8650	4	19.02507
KP5	256.4175	4	25.31192
KK9	121.5325	4	29.96259
KP9	137.8950	4	41.04682
Total	208.5779	24	83.97153

Univariate Analysis of Variance

Warnings

Post hoc tests are not performed for Kurkumin because there are fewer than three groups.

Between-Subjects Factors

		Value Label	N
Kurkumin	1.00	KK	12
	2.00	KP	12
Lama	2.00	2 minggu	8
	5.00	5 minggu	8
	9.00	9 minggu	8

Levene's Test of Equality of Error Variances^a

Dependent Variable: GPx

F	df 1	df 2	Sig.
.820	5	18	.552

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+Kurkumin+Lama+Kurkumin * Lama

Tests of Between-Subjects Effects

Dependent Variable: GPx

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	142988.856 ^a	5	28597.771	26.826	.000
Intercept	1044113.936	1	1044113.936	979.410	.000
Kurkumin	23363.184	1	23363.184	21.915	.000
Lama	110535.457	2	55267.729	51.843	.000
Kurkumin * Lama	9090.215	2	4545.107	4.263	.030
Error	19189.151	18	1066.064		
Total	1206291.943	24			
Corrected Total	162178.007	23			

a. R Squared = .882 (Adjusted R Squared = .849)

Post Hoc Tests

Lama Pemberian Kurkumin

Multiple Comparisons

Dependent Variable: GPx

Tukey HSD

(I) Lama	(J) Lama	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
2 minggu	5 minggu	94.7375*	16.32532	.000	53.0726	136.4024
	9 minggu	165.6650*	16.32532	.000	124.0001	207.3299
5 minggu	2 minggu	-94.7375*	16.32532	.000	-136.4024	-53.0726
	9 minggu	70.9275*	16.32532	.001	29.2626	112.5924
9 minggu	2 minggu	-165.6650*	16.32532	.000	-207.3299	-124.0001
	5 minggu	-70.9275*	16.32532	.001	-112.5924	-29.2626

Based on observed means.

*. The mean difference is significant at the .05 level.

Homogeneous Subsets

GPx

Tukey HSD^{a,b}

Lama	N	Subset		
		1	2	3
9 minggu	8	129.7138	200.6413	295.3787
5 minggu	8			
2 minggu	8			
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 1066.064.

a. Uses Harmonic Mean Sample Size = 8.000.

b. Alpha = .05.

Post Hoc Tests

Multiple Comparisons

Dependent Variable: GPx

Tukey HSD

(I) Interaksi	(J) Interaksi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
KK2	KP2	-59.28750	23.08749	.156	-132.6603	14.0853
	KK5	120.87000*	23.08749	.001	47.4972	194.2428
	KP5	9.31750	23.08749	.998	-64.0553	82.6903
	KK9	144.20250*	23.08749	.000	70.8297	217.5753
	KP9	127.84000*	23.08749	.000	54.4672	201.2128
KP2	KK2	59.28750	23.08749	.156	-14.0853	132.6603
	KK5	180.15750*	23.08749	.000	106.7847	253.5303
	KP5	68.60500	23.08749	.075	-4.7678	141.9778
	KK9	203.49000*	23.08749	.000	130.1172	276.8628
	KP9	187.12750*	23.08749	.000	113.7547	260.5003
KK5	KK2	-120.87000*	23.08749	.001	-194.2428	-47.4972
	KP2	-180.15750*	23.08749	.000	-253.5303	-106.7847
	KP5	-111.55250*	23.08749	.002	-184.9253	-38.1797
	KK9	23.33250	23.08749	.908	-50.0403	96.7053
	KP9	6.97000	23.08749	1.000	-66.4028	80.3428
KP5	KK2	-9.31750	23.08749	.998	-82.6903	64.0553
	KP2	-68.60500	23.08749	.075	-141.9778	4.7678
	KK5	111.55250*	23.08749	.002	38.1797	184.9253
	KK9	134.88500*	23.08749	.000	61.5122	208.2578
	KP9	118.52250*	23.08749	.001	45.1497	191.8953
KK9	KK2	-144.20250*	23.08749	.000	-217.5753	-70.8297
	KP2	-203.49000*	23.08749	.000	-276.8628	-130.1172
	KK5	-23.33250	23.08749	.908	-96.7053	50.0403
	KP5	-134.88500*	23.08749	.000	-208.2578	-61.5122
	KP9	-16.36250	23.08749	.978	-89.7353	57.0103
KP9	KK2	-127.84000*	23.08749	.000	-201.2128	-54.4672
	KP2	-187.12750*	23.08749	.000	-260.5003	-113.7547
	KK5	-6.97000	23.08749	1.000	-80.3428	66.4028
	KP5	-118.52250*	23.08749	.001	-191.8953	-45.1497
	KK9	16.36250	23.08749	.978	-57.0103	89.7353

*. The mean difference is significant at the .05 level.

Homogeneous Subsets

GPx

Tukey HSD^a

Interaksi	N	Subset for alpha = .05	
		1	2
KK9	4	121.5325	256.4175 265.7350 325.0225 .075
KP9	4	137.8950	
KK5	4	144.8650	
KP5	4		
KK2	4		
KP2	4		
Sig.		.908	

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.000.

5.6. ANOVA Gambaran Histopatologi

Means

Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
Histopatologi * Interaksi	24	100.0%	0	.0%	24	100.0%

Report

Histopatologi

Interaksi	Mean	N	Std. Deviation
KK2	1.0100	4	.22949
KP2	1.0265	4	.14897
KK5	.9000	4	.17739
KP5	.8000	4	.16330
KK9	1.1700	4	.05033
KP9	1.1098	4	.11472
Total	1.0027	24	.18800

Univariate Analysis of Variance

Warnings

Post hoc tests are not performed for Kurkumin because there are fewer than three groups.

Between-Subjects Factors

		Value Label	N
Kurkumin	1.00	KK	12
	2.00	KP	12
Lama	2.00	2 minggu	8
	5.00	5 minggu	8
	9.00	9 minggu	8

Levene's Test of Equality of Error Variances^a

Dependent Variable: Hispatologi

F	df 1	df 2	Sig.
.781	5	18	.576

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+Kurkumin+Lama+Kurkumin * Lama

Tests of Between-Subjects Effects

Dependent Variable: Hispatologi

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.367 ^a	5	.073	2.961	.040
Intercept	24.131	1	24.131	973.779	.000
Kurkumin	.014	1	.014	.555	.466
Lama	.339	2	.170	6.842	.006
Kurkumin * Lama	.014	2	.007	.283	.757
Error	.446	18	.025		
Total	24.944	24			
Corrected Total	.813	23			

a. R Squared = .451 (Adjusted R Squared = .299)

Post Hoc Tests

Lama Pemberian Kurkumin

Multiple Comparisons

Dependent Variable: Hispatologi

Tukey HSD

(I) Lama	(J) Lama	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
2 minggu	5 minggu	.1683	.07871	.110	-.0326	.3692
	9 minggu	-.1216	.07871	.294	-.3225	.0792
5 minggu	2 minggu	-.1683	.07871	.110	-.3692	.0326
	9 minggu	-.2899*	.07871	.005	-.4908	-.0890
9 minggu	2 minggu	.1216	.07871	.294	-.0792	.3225
	5 minggu	.2899*	.07871	.005	.0890	.4908

Based on observed means.

*. The mean difference is significant at the .05 level.

Homogeneous Subsets

Hispatologi

Tukey HSD^{a,b}

Lama	N	Subset	
		1	2
5 minggu	8	.8500	
2 minggu	8	1.0183	1.0183
9 minggu	8		1.1399
Sig.		.110	.294

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .025.

a. Uses Harmonic Mean Sample Size = 8.000.

b. Alpha = .05.

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Hispatologi

Tukey HSD

(I) Interaksi	(J) Interaksi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
KK2	KP2	-.01655	.11131	1.000	-.3703	.3372
	KK5	.11000	.11131	.916	-.2438	.4638
	KP5	.21000	.11131	.441	-.1438	.5638
	KK9	-.16000	.11131	.705	-.5138	.1938
	KP9	-.09983	.11131	.942	-.4536	.2539
KP2	KK2	.01655	.11131	1.000	-.3372	.3703
	KK5	.12655	.11131	.860	-.2272	.4803
	KP5	.22655	.11131	.362	-.1272	.5803
	KK9	-.14345	.11131	.787	-.4972	.2103
	KP9	-.08328	.11131	.973	-.4370	.2705
KK5	KK2	-.11000	.11131	.916	-.4638	.2438
	KP2	-.12655	.11131	.860	-.4803	.2272
	KP5	.10000	.11131	.942	-.2538	.4538
	KK9	-.27000	.11131	.199	-.6238	.0838
	KP9	-.20983	.11131	.441	-.5636	.1439
KP5	KK2	-.21000	.11131	.441	-.5638	.1438
	KP2	-.22655	.11131	.362	-.5803	.1272
	KK5	-.10000	.11131	.942	-.4538	.2538
	KK9	-.37000*	.11131	.037	-.7238	-.0162
	KP9	-.30983	.11131	.106	-.6636	.0439
KK9	KK2	.16000	.11131	.705	-.1938	.5138
	KP2	.14345	.11131	.787	-.2103	.4972
	KK5	.27000	.11131	.199	-.0838	.6238
	KP5	.37000*	.11131	.037	.0162	.7238
	KP9	.06017	.11131	.994	-.2936	.4139
KP9	KK2	.09983	.11131	.942	-.2539	.4536
	KP2	.08328	.11131	.973	-.2705	.4370
	KK5	.20983	.11131	.441	-.1439	.5636
	KP5	.30983	.11131	.106	-.0439	.6636
	KK9	-.06017	.11131	.994	-.4139	.2936

*. The mean difference is significant at the .05 level.

Homogeneous Subsets

Hispatologi

Tukey HSD^a

Interaksi	N	Subset for alpha = .05	
		1	2
KP5	4	.8000	
KK5	4	.9000	.9000
KK2	4	1.0100	1.0100
KP2	4	1.0265	1.0265
KP9	4	1.1098	1.1098
KK9	4		1.1700
Sig.		.106	.199

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 4.000.

5.7. Uji Korelasi

Correlations

Correlations

		MDA	GPx	Hispatologi	Lama
MDA	Pearson Correlation	1	.765**	-.102	-.862**
	Sig. (2-tailed)		.004	.753	.000
	N	12	12	12	12
GPx	Pearson Correlation	.765**	1	-.212	-.915**
	Sig. (2-tailed)	.004		.508	.000
	N	12	12	12	12
Hispatologi	Pearson Correlation	-.102	-.212	1	.245
	Sig. (2-tailed)	.753	.508		.443
	N	12	12	12	12
Lama	Pearson Correlation	-.862**	-.915**	.245	1
	Sig. (2-tailed)	.000	.000	.443	
	N	12	12	12	12

**. Correlation is significant at the 0.01 level (2-tailed).